CLAIMS LISTING

1. (Previously Presented) A method comprising:

receiving a message at a routing node in an overlay network, the message

comprising a header and a body, wherein the header comprises information for routing

the message;

passing the message to the application level at the routing node to process the

message;

generating by the routing node a routing policy message, the routing policy

message including a routing policy, wherein the routing policy comprises instructions for

routing nodes for redirecting messages, wherein redirecting is based at least in part on the

body of the message;

instructing the sending node to bypass a first routing node and issue the routing

policy message to a second routing node, the instructing based in part on the routing

policy of the routing policy message;

accessing a routing table by the second routing node to determine a final

destination address to route the message, the routing table includes categories of

messages and a corresponding address for the message;

identifying by the sending node the final destination address to which to route the

message based in part on the routing policy of the routing policy message;

after identifying the final destination address, incorporating by the sending node

the routing policy into the body of the message;

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forwarding by the sending node the message to the final destination address in the

overlay network based on the instructions; and

returning the routing policy message which includes the routing policy to the

sending node when it is determined that the sending node does not have routing policy

instructions derived from the body of the message.

**2.** (Previously Presented) The method of claim 1, further comprising:

after passing the message to the application level at the routing node, modifying an

address of the header of the message to create a modified address;

after generating the routing policy for the sending node based at least in part on

the body of the message, determining from the message if the sending node does not have

routing policy instructions derived from the body of the message after the message is

passed to the application level of the routing node; and

generating the routing policy for the routing policy message based on the modified

address and returning the routing policy message to the sending node if it is determined

that the sending node does not have routing policy instructions derived from the body of

the message received at the routing node.

3. (Canceled).

4. (Previously Presented) The method of claim 1, wherein generating the

routing policy is at an application level in the routing node, and wherein a compression

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policy is applied to the message prior to forwarding the message to the final destination node in the overlay network.

5-8. (Canceled).

9. (Previously Presented) The method of claim 1, further comprising

iteratively applying by the sending node a plurality of routing policies to the message.

each of the plurality of routing policies modifying the address in the message, and

applying by the sending node a security policy to the message prior to forwarding the

message to the final destination node in the overlay network.

10. (Canceled).

11. (Previously Presented) The method of claim 1, further comprising

receiving a plurality of routing policies at a sending node from a plurality of routing

nodes in the overlay network prior to identifying by the sending node a final destination

address.

12. (Previously Presented) The method of claim 1, wherein identifying at

least one routing policy is based at least in part on the address of the header of the

message.

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13. (Previously Presented) The method of claim 1, further comprising

applying a transport policy to the message by the sending node after changing the address

in the header of the message, wherein the transport policy defines which transportation

protocol with which to send the message.

14. (Previously Presented) The method of claim 1, further comprising:

applying a transport policy to the message only after applying each identified

routing policy to the message, wherein the transport policy defines a transportation

protocol over which to transport the message, and

applying an encryption policy before issuing the message directly to the final

destination node in the overlay network.

15. (Withdrawn) A system comprising:

a routing node receiving a message in an overlay network, wherein the message

comprises a body and a header, wherein the header comprises information for routing the

message;

routing table operatively associated with the routing node; and

a message processor at the routing node, the message processor generating a

routing policy for a sending node of the message and incorporating the routing policy into

the body of the message, wherein the routing policy comprises instructions for redirecting

messages based at least in part on content of the body of the message, the message

processor generating the routing policy based on entries in the routing table, and the message processor applying a security policy to the message.

16. (Canceled).

17. (Withdrawn) The system of claim 15, wherein the routing node includes a

messaging level and an application level, the routing node generating the routing policy

at the application level.

18. (Withdrawn) The system of claim 15, wherein the routing node includes a

messaging level and an application level, the routing node returning the routing policy to

the sending node at the messaging level.

19. (Withdrawn) The system of claim 15, wherein the routing node includes a

messaging level and an application level, the routing node forwarding the message to

another node in the overlay network at the messaging level.

20. (Withdrawn) A system comprising:

at least one routing policy for a message, the message comprising a header and a

body, wherein the header comprises information for routing the message, wherein the at

least one routing policy is generated by at least one routing node in an overlay network,

wherein the routing policy comprises instructions for redirecting messages;

a messaging module configured to change an address in the header of the message

at a sending node to bypass at least one node in the overlay network based on the at least

one routing policy so that the message is issued directly to a final destination node in the

overlay network, wherein the messaging module is configured to incorporate the routing

policy into the body of the message; and

a policy manager configured to identify the at least one routing policy to the

messaging module based at least in part on content of the body of the message.

21-23. (Canceled).

24. (Withdrawn) The system of claim 20, further comprising a transport

policy identifying a transport protocol for the message based on the address in the header

of the message, and wherein the messaging module is further configured to determine

from the message if the sending node does not have routing policy instructions derived

from the body of the message, and wherein the policy manager is configured to return the

routing policy to the sending node if it is determined that the sending node does not have

routing policy instructions derived from the body of the message.

25. (Previously Presented) A computer program storage medium storing a

computer program for executing on a computer system a method, the method comprising:

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receiving a message at a routing node in an overlay network, wherein the message

comprises a body and a header, wherein the header comprises information for routing the

message;

passing the message to the application level at the routing node to process the

message;

generating, by the routing node, a routing policy message and a routing policy.

wherein the routing policy comprises instructions for redirecting messages based at least

in part on content of the body of the message, and wherein generating the routing policy

message includes incorporating the routing policy into the body of the routing policy

message;

returning the routing policy message to a sending node;

instructing the sending node to bypass a first routing node and issue the routing

policy message to a second routing node;

accessing a routing table by the second routing node to determine a final

destination address to route the message, the routing table includes types of messages and

a corresponding address for the message;

identifying, by the sending node, the final destination address to which to route the

message; and

forwarding the message to a final destination node in the overlay network, the

final destination node corresponding to the final destination address.

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26. (Previously Presented) The computer program storage medium of claim

25 wherein the method further comprises:

generating the routing policy based on the final destination address; and

applying a compression policy to the message prior to returning the routing policy

to the sending node.

27. (Previously Presented) The computer program storage medium of claim

25 wherein the method further comprises:

after generating the routing policy for the sending node of the message,

determining from the message if the sending node does not have routing policy

instructions derived from the body of the message after the message is passed to the

application level of the routing node; and

generating the routing policy and returning the routing policy to the sending node

if it is determined that the sending node does not have routing policy instructions derived

from the message.

28. (Previously Presented) The computer program storage medium of claim

25 wherein the method further comprises generating the routing policy at an application

level in the routing node and applying an encryption policy to the message before

forwarding the message to the final destination node.

29-30. (Canceled).

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31. (Previously Presented) A computer program storage medium storing a

computer program for executing on a computer system a method, the method comprising:

identifying at least one routing policy for a message, the message comprising a

header and a body, wherein the header comprises information for routing the message,

wherein the routing policy comprises instructions for redirecting messages based at least

in part on content of the body of the message;

changing an address in the message to bypass at least one node in an overlay

network based on the at least one routing policy;

accessing a routing table to identify a final destination address to route the

message based at least in part on the routing policy, the routing table includes categories

of messages and a corresponding address for the message;

identifying the final destination address to which to route the message;

incorporating the routing policy into the body of the message and issuing the

message in the overlay network directly to the final destination address;

determining from the message whether a sending node has routing policy

instructions derived from the body of the message; and

returning a routing policy message which includes the routing policy to the

sending node when it is determined that the sending node does not have routing policy

instructions derived from the body of the message.

32. (Canceled).

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33. (Previously Presented) The computer program storage medium of claim

31 wherein the method further comprises:

iteratively applying a plurality of routing policies to the message, each of the

plurality of routing policies changing the address in the message.

34. (Canceled).

35. (Previously Presented) The computer program storage medium of claim

31 wherein the method further comprises sending a plurality of routing policies to a

sending node from a plurality of routing nodes in the overlay network, and applying an

encryption policy to the message before sending the at least one routing policy to a

sending node in the overlay network.

36. (Previously Presented) The computer program storage medium of claim

31 wherein the method further comprises:

identifying at least one routing policy based at least in part on the address in the

header of the message; and

applying a compression policy to the message.

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37. (Previously Presented) The computer program storage medium of claim 31 wherein the method further comprises applying a transport policy to the message after changing the address in the header of the message.

**38.** (Previously Presented) The computer program storage medium of claim 31 wherein the method further comprises:

applying a transport policy to the message only after applying each identified routing policy to the message; and

applying a security policy to the message.

39. (Previously Presented) The method of claim 1, further comprising: after returning the routing policy message to the sending node, sending the routing policy message to other routing nodes in the overlay network.

**40.** (Previously Presented) The method of claim 1, further comprising:

after returning the routing policy message to the sending node, the routing node combining the routing policy with other received routing policies into a master routing policy for nodes in the overlay network.